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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

7601 W. Clearwater, Suite 102 • Kennewick, Washington 99336 • (509) 546-2990

July 20, 1992



Mr. Steve Wisness
United States Department of Energy - Richland
P.O. Box 550 MSIN: A5-19
Richland, Wa 99352

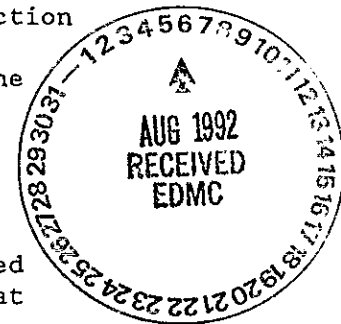
Dear Mr. Wisness:

Re: LIQUID EFFLUENT RETENTION FACILITY PROJECT FRE PIPING
CONDENSATE COMPATIBILITY TEST (EPA 9090)

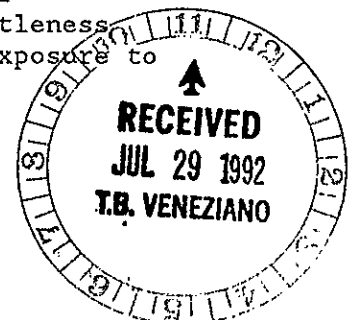
This is in reference to your letter dated July 7, 1992 concerning the above subject.

The two main concerns these tests highlight are:

1. The fiber-reinforced piping will be susceptible to reduction of its tensile strength at cracked locations, as demonstrated in the first set of compatibility tests. The increase of the notch sensitivity of the lining epoxy observed in the second set of tests, will enhance the possibility of cracks to develop.
2. The tensile strength shows a decrease trend (see attached graph) after exposure to simulated condensate solution at 90°C.



As recommended in the test report attached to your letter referenced above, on page 11, third paragraph, both brittleness and tensile strength tests should be carried out after exposure to 40°C and 90°C for 150, 180, 210, and 240 days.



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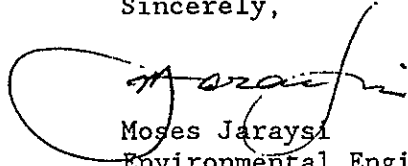
Mr. Steve Wisness

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If you have any questions regarding this matter please call me at
(509) 546-2995.

Sincerely,



Moses Jaraysi

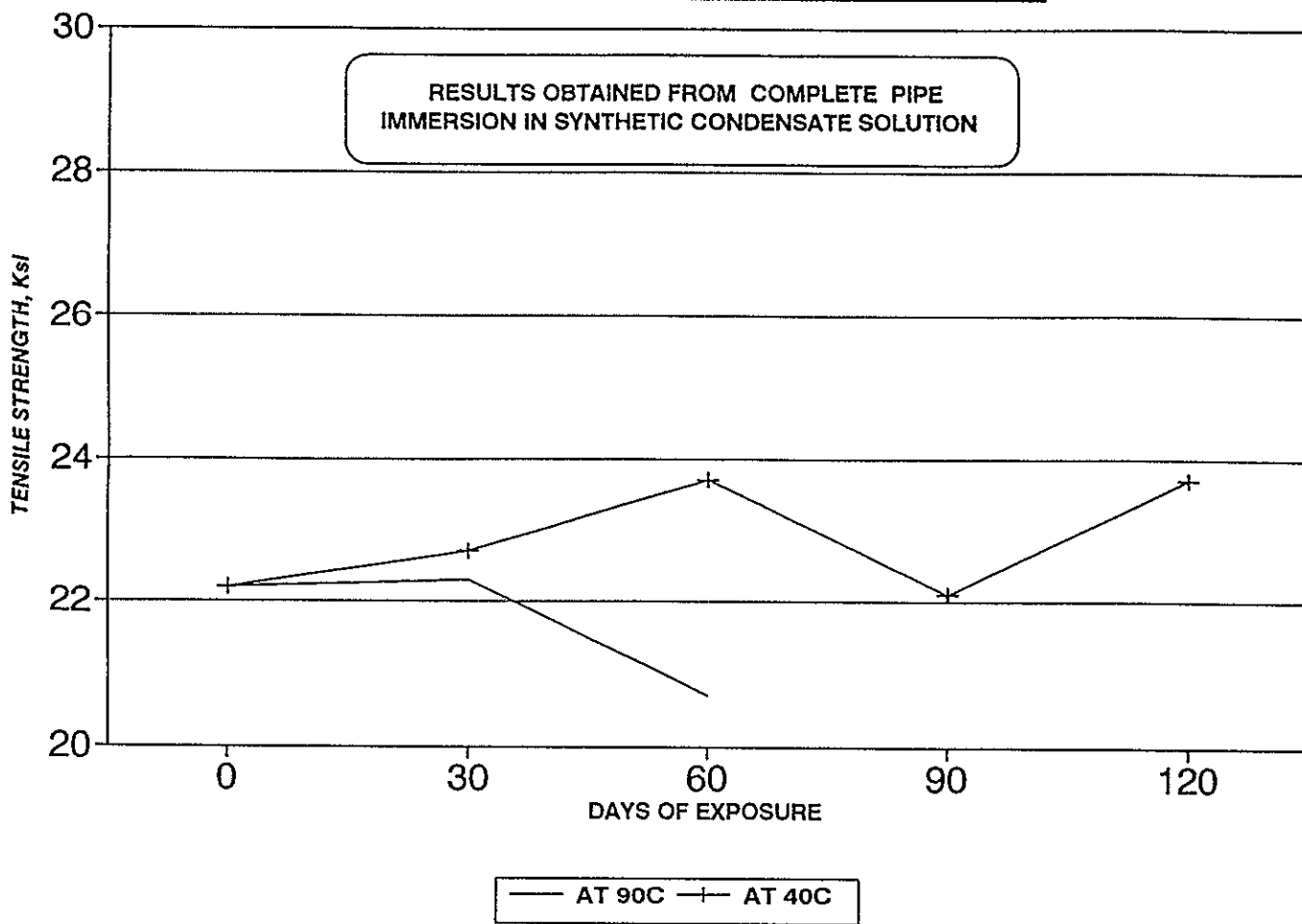
Environmental Engineer, LERF Project Unit Manager
Nuclear and Mixed Waste Management/Kennewick

MJ:mf

cc: G. T. Tebb (Ecology)
D. Nylander (Ecology)
T. Michelena (Ecology)
D. Duncan (EPA)
D. Bryson (USDOE-RL)
T. Veneziano (WHC)
Administrative Record

9 2 1 2 8 1 4 0 5 9 1

9090 TEST ON FRE LERF PIPING
EFFECTS ON TENSILE STRENGTH



9 2 1 2 6 5 4 0 5 9 2

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author

Addressee

Correspondence No.

M. Jaraysi, Ecology

S. H. Wisness, RL

Incoming: 9205088

Subject: LIQUID EFFLUENT RETENTION FACILITY PROJECT FRE PIPING CONDENSATE
COMPATIBILITY TEST (EPA 9090)

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